



## KOREAN PATENT ABSTRACTS

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## (54) METHOD FOR GENERATING AND RECORDING SEARCH INFORMATION OF RECORDING DIGITAL DATA STREAM

## (57) Abstract:

PURPOSE: A method for generating and recording the search information of a recording digital data stream is provided to rapidly and exactly search a recording data stream corresponding to a search request time by reading and using search information for a stream object end time.

STMAP_GI		
MAPU_SZ	Minimum Mapping Unit Size	2 Bytes
MTU_SHFT	Mapping Time Unit Shift	1 Bytes
S_S PTS	SOB Start PTS	1 Byte
S_E_TIME (SOB_DURATION_TIME)	SOB End Time (SOB Duration Time)	1 Bytes
MAPL_ENT_NS	Number of Mapping List Entries	4 Bytes
S_S_APAT	Stream Start APAT	8 Bytes
S_E_APAT	Stream End APAT	8 Bytes

(a)

CONSTITUTION: An STMAP\_GI(Stream Time Map General Information) is composed of an MAPU\_SZ (Minimum Mapping Unit Size) field, an MTU\_SHFT (Mapping Time Unit Shift) field, an MAPL\_ENT\_NS (Number of Mapping List Entries) field, an S\_S\_APAT

IPAT		
IPAT	Incremental APAT	2 Bytes

(b)

(Stream Start APAT) field, an S\_E\_APAT(Stream End APAT) field, an S\_S PTS(SOB Start PTS) field and an S\_E\_TIME(SOB End Time). The MAPU\_SZ field indicates the size of an SOBU(Stream OBject Unit). The MTU\_SHFT field indicates a weight value for the unit time of the SOBU. The MAPL\_ENT\_NS field indicates the quantity of a mapping list. The S\_S\_APAT field indicates the arrival time of a packet corresponding to the first stream of the SOB. The S\_E\_APAT field indicates the arrival time of a packet corresponding to the last stream of the SOB. The S\_S PTS field indicates program clock reference information corresponding to an SOB start stream. The S\_E\_TIME indicates time information for an SOB end time.

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